

FIG. 1
CONVENTIONAL ART

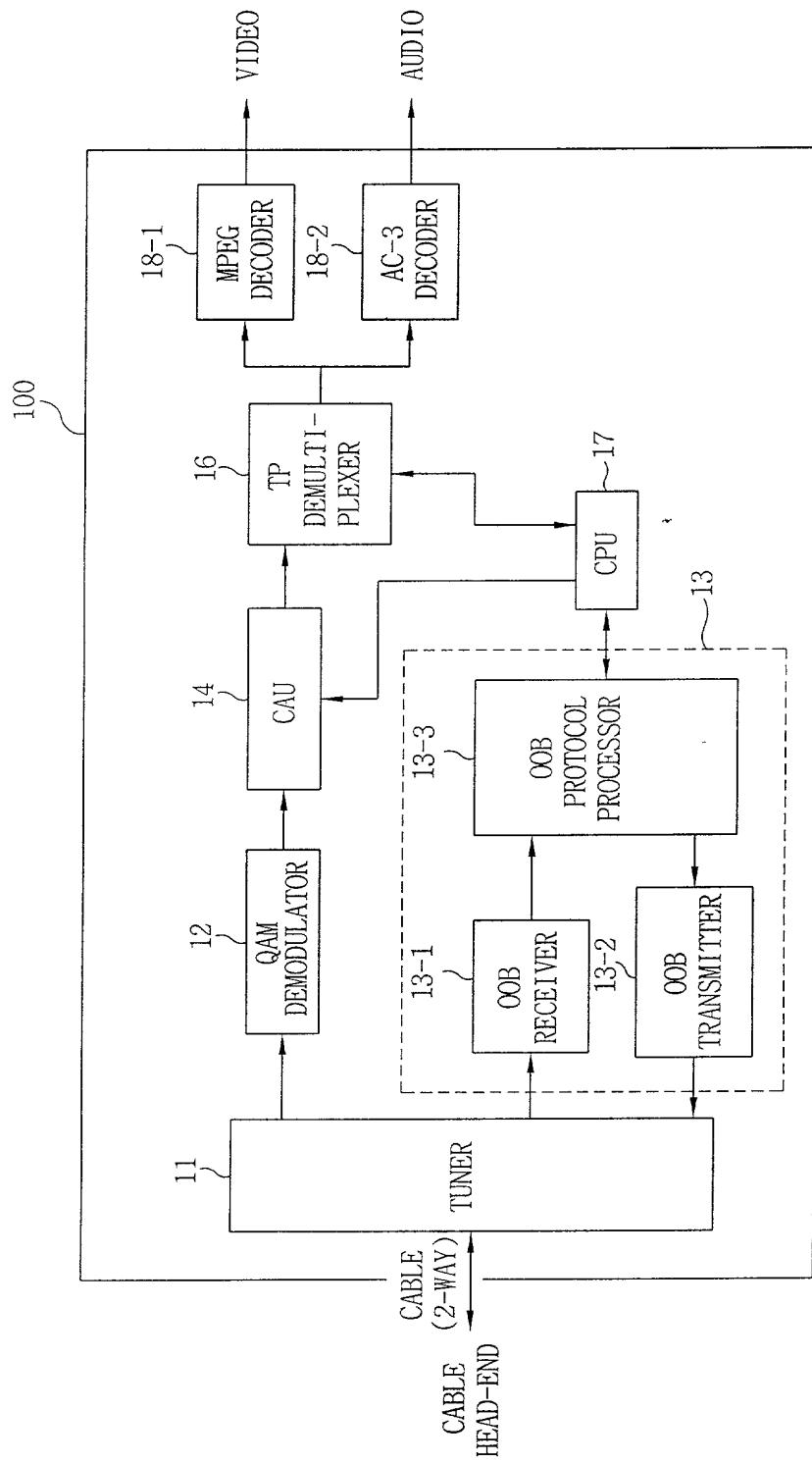


FIG. 2
CONVENTIONAL APT

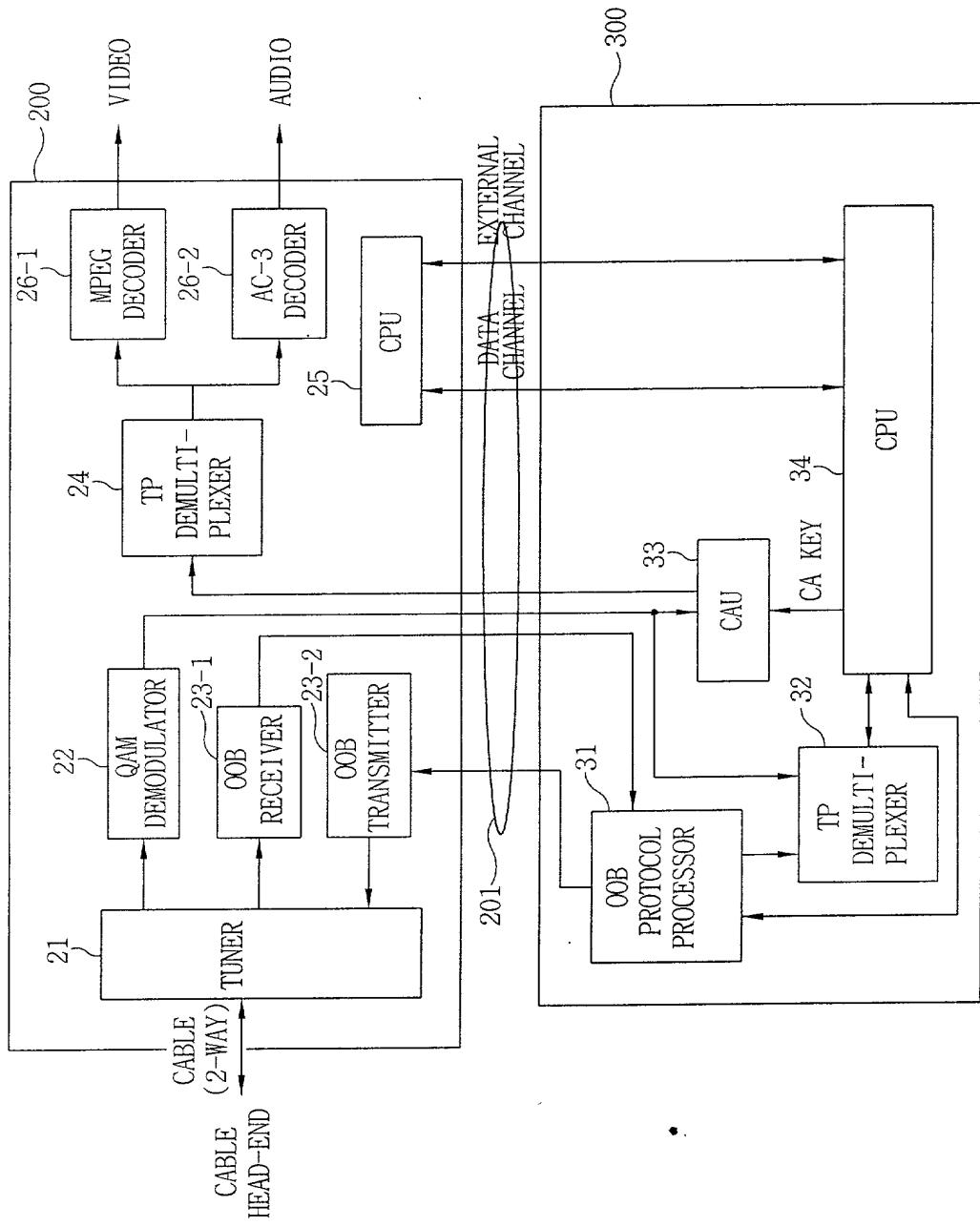


FIG. 3
CONVENTIONAL ART

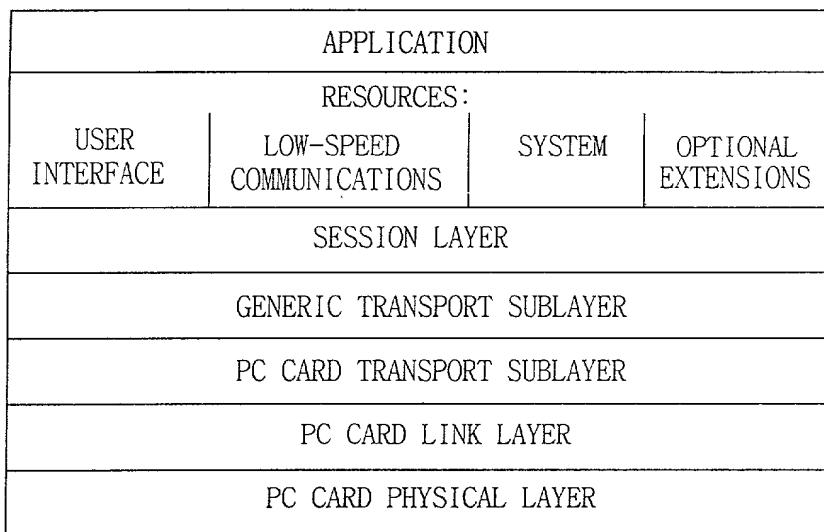


FIG. 4

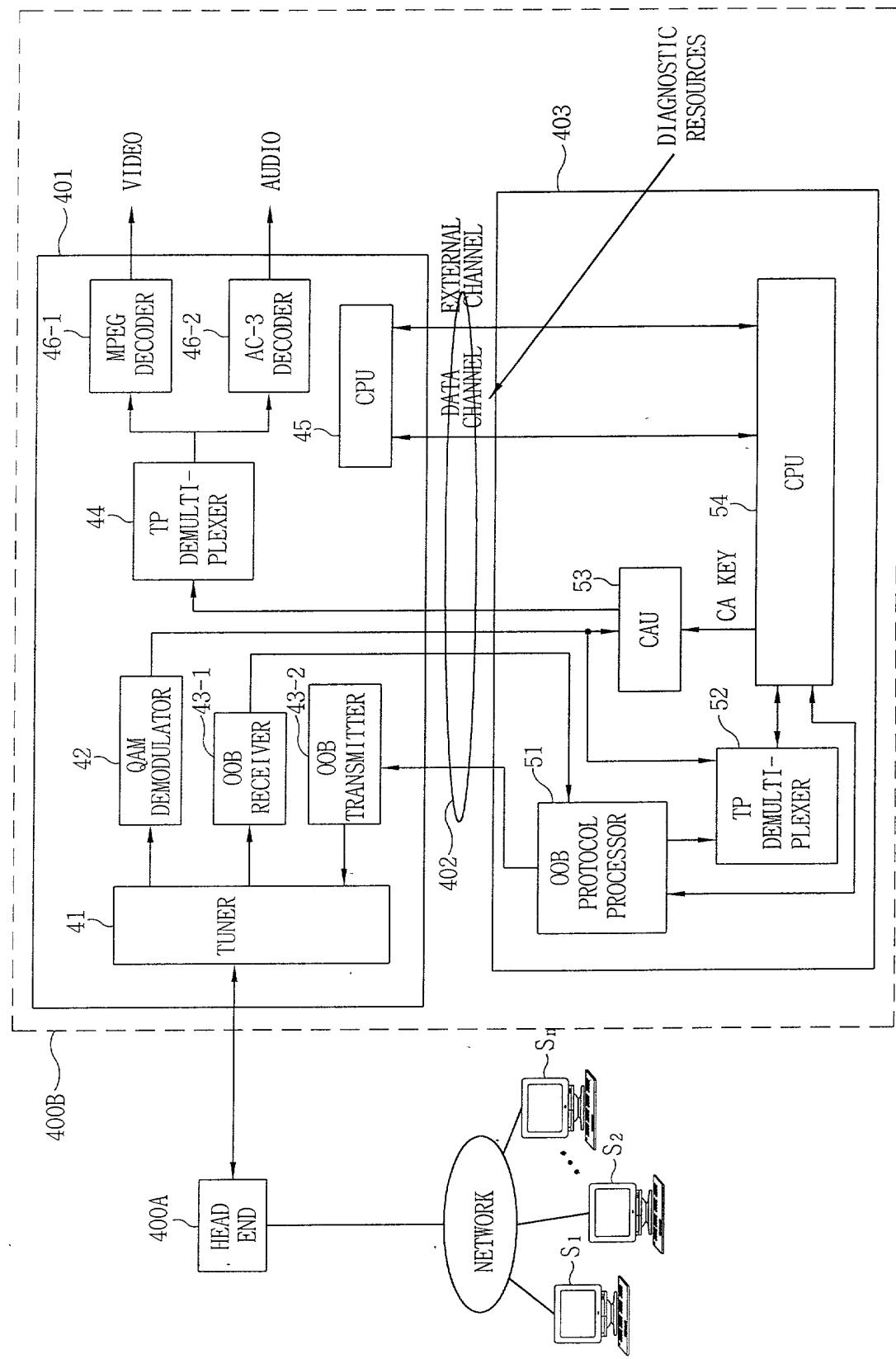


FIG.5

Syntax	NO. OF BITS
<pre>Diag_open_req() { Diag_open_req_tag Length_field() = 0 }</pre>	24

FIG.6A

Syntax	NO. OF BITS	DESCRIPTION
Diag_open_cnf() {		
Diag_open_cnf_tag	24	
Length_field()		
Send_datatype_number	8	
For(I=0; 1<Send_datatype_number; I++) {		INFORMATION REPLY TO SET-TOP BOX AND MANUFACTURER
Datatype_ID	8	
Datatype_length	8	
For(J=0; J<Datatype_length; J++) {		
Data_byte	8	
}		
}		NUMBER OF SUBSYSTEM INCLUDING SET-TOP BOX
Sub_system_number	8	
For(I=0; Sub_system_number; I++) {		
Sub_sustem_id	8	
}		LIST OF SUBSYSTEM
}		

FIG. 6B

Datatype_id	id VALUE	LENGTH (BYTES)
Manufacturer_id	0x01	50(Max)
Brand_id	0x02	50(Max)
Model_id	0x03	20(Max)
Serial_id	0x04	20(Max)
Host_id	0x05	8
POD_module_id	0x06	8

FIG. 6C

Sub_system	id VALUE(HEXA)
CableNIM tuning sub_system	0x01
TP demultiplexing sub_system	0x02
Video decoding sub_system	0x03
Audio decoding sub_system	0x04
Graphics sub_system	0x05
Copy protection sub_system	0x06
...	

FIG. 7

Syntax	NO. OF BITS
<pre>Diag_stat_req() { Diag_stat_req_tag Length_field() = 0 }</pre>	24

FIG.8

Syntax	NO. OF BITS	DESCRIPTION
Diag_stat_cnf() { Diag_stat_cnf_tag Length_field() System_status }	24 8	REPLY WHETHER SET-TOP IS NOMAL OR NOT 0x00: OK 0x01: Not OK

FIG.9

Syntax	NO. OF BITS
Diag_data_req() { Diag_data_req_tag Length_field() = 0 }	24

FIG.10A

Syntax	NO. OF BITS	DESCRIPTION
<pre>Diag_data_cnf() Diag_data_cnf_tag Length_field() Sub_system_number For(I=0; I<Sub_system_number;I++) { Sub_system_id Sub_system_status } }</pre>	24 8 8	NUMBER OF SUBSYSTEM INCLUDING SET-TOP BOX REPLY WHETHER SET-TOP IS NOMAL OR NOT

FIG.10B

Sub_system	id VALUE(HEXA)	DESCRIPTION
CableNIM tuning sub_system	0x00	OK
	0x01	In-band tuning not working
	0x02	OOB Rx tuning not working
	0x03	OOB Tx tuning not working
TP demultiplexing sub_system

FIG.11

